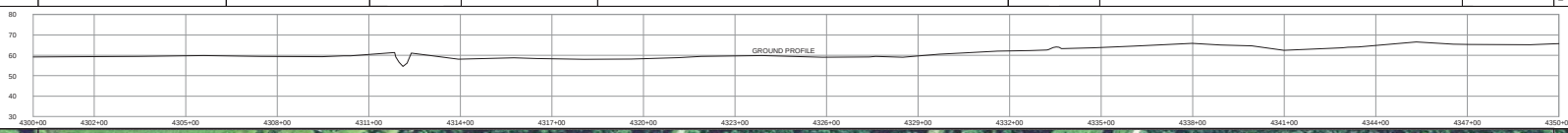
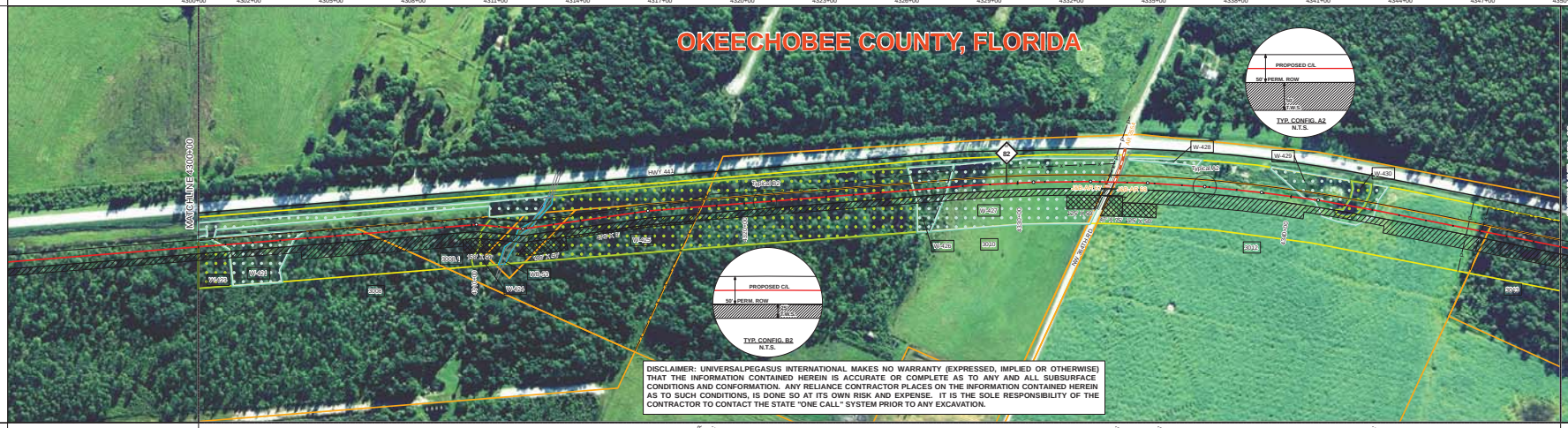
| TRACT | 3008 VOOR JAAR RANCH, LLC 619 FT 4300+00 TO 4306+19 | 3008.1 VOOR JAAR RANCH, LLC 530 FT 4306+19 TO 4311+49 | FLORIDA DEPARTMENT OF TRANSPORTATION 184 FT 4311+49 TO 4313+33 | 3008.1 VOOR JAAR RANCH, LLC 510 FT 4313+33 TO 4318+43 | 3010 SANCHELIMA DAIRY FARMS, INC. 1483 FT 4318+43 TO 4333+26 | NW 364TH RD OKEECHOBEE COUNTY 33 FT 4333+26 TO 4333+59 | 3012 OKEECHOBEE AG. LAND TRUST 1371 FT 4333+59 TO 4347+30 | 3013 VOOR JAAR RANCH, LLC 270 FT 4347+30 TO 4350+00 |
|---|---|---|---|---|---|---|---|---|

MATCHLINE 4300+00 / MATCHLINE 4350+00

GROUND PROFILE
HORIZ: 1" = 200'
VERT: 1" = 30'




SCALE: 1" = 200'




## SURVEY DATA

### STATIONING

MATCHLINE 4300+00

4310+17 PI, P36936' RT
4311+85 TOP OF BANK
4311+86 PI, 4' RT
4312+28 WATER EDGE
4312+39 TOP OF BANK
4316+47 PI, P36936' RT
4318+42 FENCE
4318+55 FENCE CORNER
4318+57 IRON ROD LT 24'
4327+41 FENCE
4330+58 PI, 27'+18' RT
4332+67 PI, 27'+18' RT
4333+21 FENCE
4333+25 POWER LINE
4333+27 IRON ROD LT 25'
4333+31 WATER EDGE
4333+45 OVERHEAD
4333+47 IRON ROD LT 20'
4333+53 NW 364TH RD
4333+53 C.M. 2054
4333+53 IRON ROD LT 25'
4333+62 ROAD EDGE
4333+72 ROAD EDGE
4333+99 TYP. ANCHOR RT 53'
4334+75 PI, 27'+18' RT
4336+86 PI, 27'+18' RT
4338+92 PI, 27'+18' RT
4341+00 PI, 27'+18' RT
4343+06 IRON ROD LT 24'
4346+54 POWER LINE
4347+06 FENCE

MATCHLINE 4350+00

## ENGINEERING DATA

### MATERIAL

MATCHLINE 4300+00

37-7K# SBW
11.5 CC

7
3313'

2307'-6" CCC

9
80'

7
1607'

32-7K# SBW
11.5 CC

4303+44
4304+17
4310+90
4310+17
4311+86
4312+39
4312+62
4318+41
4327+91
4333+07
4333+13
4333+25
4333+80
4333+93
4336+86
4340+07
4342+21
4343+64

MATCHLINE 4350+00

| | |
|---|---|
| REFERENCE DRAWING | 21040-440-PMW-00044 |
| CLASS LOCATION | Class I |
| MINIMUM DEPTH OF COVER | 3' / 5' / 3' / SEE REF DWG / 3' |
| AC MITIGATION / CATHODIC PROTECTION | |

## ENVIRONMENTAL DATA

| | |
|---|---|
| WATERBODY/WETLAND CROSSINGS | W-423, W-421, W-424, WB-23, W-425, W-426, W-427, W-430, W-429 |
| WATERBODY/WETLAND LENGTH | 86', 350', 129', 36', 1406', 125', 395', 347', 62', 21' |

### STATIONS

4300+86
4300+86
4303+50
4310+90
4311+69
4311+79
4311+85
4312+15
4312+69
4326+21
4326+21
4327+46
4327+46
4333+13
4333+31
4333+93
4340+60
4342+02
4342+02
4342+64
4342+64
4343+31

MATCHLINE 4300+00

| | | |
|---|---|---|
| PERMANENT EROSION CONTROL | EROSION CONTROL CODE | THIS BAND NOT UTILIZED |
| | SLOPE BREAKER CODE | THIS BAND NOT UTILIZED |
| | TOPSOIL SALVAGE | THIS BAND NOT UTILIZED |
| THREATENED AND ENDANGERED SPECIES | | |
| SPECIAL CONDITIONS | TMPIG CONSTRAINT | THIS BAND NOT UTILIZED |
| | CONSTRAINT 2 | THIS BAND NOT UTILIZED |
| | CONSTRAINT 3 | THIS BAND NOT UTILIZED |
| | CONSTRAINT 4 | THIS BAND NOT UTILIZED |

MATCHLINE 4350+00

## BILL OF MATERIALS

| ITEM NO. | QTY | UOM | REQ'N NUMBER | MATERIAL NUMBER | DESCRIPTION |
|---|---|---|---|---|---|
| 7 | 4920 | FT | | | 30" O.D. x 0.429" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE |
| 9 | 80 | FT | | | 30" O.D. x 0.514" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE & 24-30 MILS ARO |

## MISCELLANEOUS MATERIALS

| QTY | UOM | REQ'N NUMBER | MATERIAL NUMBER | DESCRIPTION |
|---|---|---|---|---|
| 69 | EA | | | SET ON WEIGHTS |
| 6 | EA | | | PIPELINE MARKERS |
| 5 | EA | | | WARNING SIGNS |
| 1 | EA | | | CP TEST STATION TYPE 1 |
| 0 | EA | | | CP TEST STATION TYPE 2 |
| 0 | EA | | | AERIAL MARKERS |
| 0 | EA | | | ANODE BED DEEP WELL |

## FITTINGS SUMMARY

| ITEM NO. | QTY | UOM | REQ'N NUMBER | MATERIAL NUMBER | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

## PIPE ASSEMBLIES

| QTY | UOM | DESCRIPTION |
|---|---|---|
| | | |

## CONTINUOUS CONCRETE COATING

| QTY | UOM | REQ'N NUMBER | MATERIAL NUMBER | DESCRIPTION |
|---|---|---|---|---|
| 2307 | FT | | | 6" OF CONTINUOUS CONCRETE COATING (140 PCF DENSITY CONCRETE) |

## PIPE COATING DATA

PIPE COATING: 14 MIL MINIMUM FBE AND 24 MIL MINIMUM ARO
GIRTH WELD COATING: 2 PART EPOXY
INTERNAL COATING (YES/NO): NO

## TYPICAL DRAWINGS

| DWG/FIELD BOOK NO. | TITLE |
|---|---|
| 21040-510-TYP-20001 | CATHODIC PROTECTION STD. SINGLE POINT TEST STATION, TYPE 1 |
| 21040-510-TYP-20002 | CATHODIC PROTECTION STD. FOREIGN PIPELINE CROSSING TEST STATION, TYPE 2 |
| 21040-510-TYP-20028<br>21040-510-TYP-20029 | TYPICAL OPEN CUT / BORE |
| 21040-510-TYP-20112 | CONTINUOUS CONCRETE COATING STANDARD FOR 36" / 30" PIPELINE |
| 21040-510-TYP-20113 | TYPICAL SADDLE BAG WEIGHTS |
| 21040-510-TYP-20114 | WARNING SIGN DETAIL |
| 21040-510-TYP-20115 | AERIAL MARKER INSTALLATION DETAIL |
| 21040-510-TYP-20116 | AERIAL MARKER DETAIL |
| 21040-510-TYP-20117 | TYPICAL PIPELINE MARKER ASSEMBLY |
| 21040-510-TYP-20118 | PIPELINE MARKER "WARNING" DECAL |

## GENERAL INFORMATION

1. THE MINIMUM DEPTH OF COVER FOR THE PROJECT IS 36 INCHES. ADDITIONAL DEPTH OF COVER IS REQUIRED FOR ROAD AND WATERBODY CROSSINGS, AND IS TO BE IN ACCORDANCE WITH REFERENCED PERMIT DRAWINGS, SITE SPECIFIC DRAWINGS, OR CONSTRUCTION SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
2. THE BOUNDARIES OF ALL WORK AREAS WILL BE CLEARLY MARKED AND ALL WORK SHALL REMAIN WITHIN THE DESIGNATED WORK AREA.
3. THE REQUIRED STATE ONE CALL NOTIFICATION IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR.
4. THE CONTRACTOR SHALL ACCESS THE WORK AREA USING ONLY PUBLIC ROADS AND APPROVED ACCESS ROADS.
5. ADDITIONAL WARNING SIGNS MAY BE REQUIRED AS DICTATED BY CONSTRUCTION CONTRACT.
6. MAP PROJECTION: NAD 1983 HARN STATE PLANE FLORIDA EAST FIPS 0901 FEET. VERTICAL DATUM: NAVD 88.

## SPECIAL NOTES

1. INDUCTION BEND QUANTITIES ALONG WITH THEIR DESCRIPTIONS ARE LOCATED ON DRAWING 21040-505-FBW-00001.
2. SEE ARK DRAWING PACKAGE FOR ANODE BED DEEP WELL.

## LEGEND

HDD PIPE
BORE PIPE
LINE PIPE
IN ROD PIT
INDUCTION BEND
TRANSITION PIPE
CONT. CONC. COAT.
SET-ON WEIGHTS
WARNING SIGN
MATERIAL ITEM
AERIAL MARKER
CP TEST STATION
BV MOV / BV & CV
PIPELINE MARKER
PIPELINE MILEPOST
ANODE BED DEEP WELL
PIPELINE ROUTE
FENCE
POWER LINE
TELEPHONE LINE
WATERLINE
SEWER LINE
BURIED CABLE
UTILITY LINE
GENERAL SURVEY
FOREIGN PIPELINE
RAILROAD
HIGHWAY / ROAD
PRIVATE ACCESS / SHIDDLY ROAD
COUNTY BOUNDARY
ROW PARCEL
PLSS SECTION LINE
TRAP
WATER WELL
HDD ENTRY / EXIT
PERMANENT ROW
TEMPORARY WORKSPACE
ADDITIONAL TEMPORARY WORKSPACE
NON FORESTED WETLAND
FORESTED WETLAND
WATERBODY
PARCEL NUMBER
WETLAND / WATERBODY NAME
RODKERY
RODKERY BUFFER (0000 FEET)
TYPICAL / DETAIL CONFIGURATION
POINT OF INTERSECTION (PI)
VERTICAL FITTING
SPREAD BREAK
ENVIRONMENTAL SURVEY AREA

## REVISIONS

| NO. | DESCRIPTION | DATE | REV BY | CHK BY | APP BY |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| 1 | IFC (UPDATE ENV., RE-ROUTES, FOOT-PRINT) | 2016-04-08 | MB | MJ | RG |
| 0 | ISSUED FOR CONSTRUCTION | 2015-12-15 | MB | MJ | RG |

| | APPROVAL | COMPANY |
|---|---|---|
| ENVIRONMENTAL | | |
| LAND | | |

0 100 200 400 600 800
1 INCH = 200 FT

## APPROVALS

| | | | |
|---|---|---|---|
| DRAWN BY: | MB | CONSTRUCTION PERMIT NO. | |
| CHECKED BY: | MJ | MAINTENANCE OPERATION REGION | |
| PROJECT MANAGER | RG | MIN. TEST PRESSURE | 1816 PSI |
| PROJECT DEF. NO. | | DESIGN PRESSURE | 1440 PSI |

UniversalPegasus INTERNATIONAL
A Subsidiary of Huntington Ingalls Industries

FLORIDA SOUTHEAST CONNECTION

FLORIDA SOUTHEAST CONNECTION PROJECT

STA: 4300+00 TO 4350+00 | DISCIPLINE#: 03

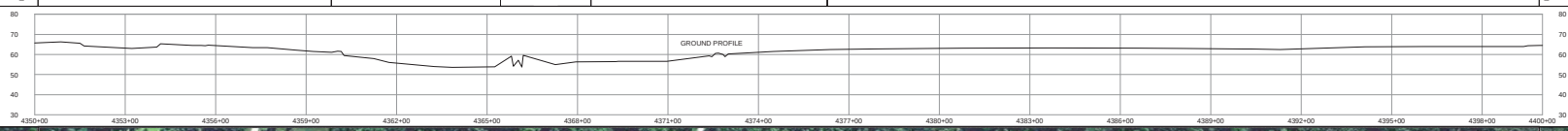
# FLORIDA SOUTHEAST CONNECTION
# ALIGNMENT SHEET
# OKEECHOBEE COUNTY, FLORIDA

SCALE: 1" = 200' | 21040-510-ALS-00091 | REV. 1

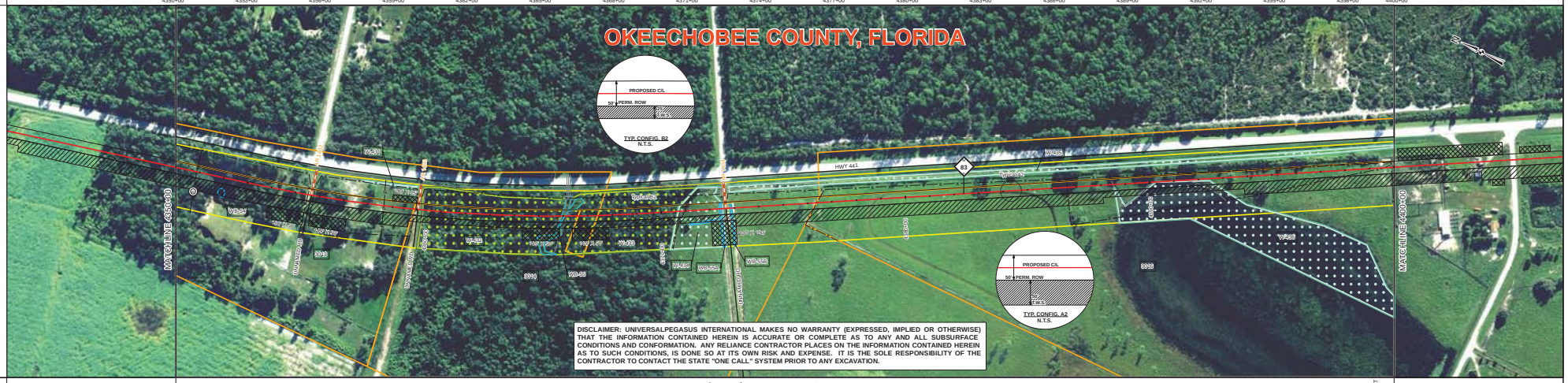
| TRACT | 3013 VOOR JAAR RANCH, LLC 988 FT 4350+00 TO 4359+88 | 3014 VOOR JAAR RANCH, LLC 672 FT 4359+88 TO 4366+60 | FLORIDA DEPARTMENT OF TRANSPORTATION 80 FT 4366+60 TO 4367+40 | 3014 VOOR JAAR RANCH, LLC 895 FT 4367+40 TO 4376+35 | 3016 BULL HEAD RANCH, INC. 2365 FT 4376+35 TO 4400+00 |
|---|---|---|---|---|---|

MATCHLINE 4350+00 — MATCHLINE 4400+00

GROUND PROFILE HORIZ: 1" = 200' VERT: 1" = 30'




SCALE: 1" = 200'




## SURVEY DATA — STATIONING

4350+67 POWER LINE; 4355+52 FENCE; 4355+55 UNNAMED RD; 4355+65 CLVR 1402; 4355+75 FENCE; 4358+64 POWER LINE; 4359+95 FENCE; 4360+04 UNNAMED RD; 4360+14 UNNAMED RD; 4360+15 TOP OF BANK; 4360+25 WATER EDGE; 4365+61 TOP OF BANK; 4365+80 TOP OF BANK; 4366+15 WATER EDGE; 4366+20 TOP OF BANK; 4370+97 FENCE; 4372+36 TOP OF BANK; 4372+49 CULVERT RT 46'; 4372+50 TOP OF BANK; 4372+65 UNNAMED RD; 4372+80 TOP OF BANK; 4372+83 TOP OF BANK; 4372+90 CULVERT RT 42'; 4372+90 TOP OF BANK; 4376+37 FENCE; 4376+49 MONUMENT LT 25'; 4386+42 FENCE; 4389+50 CULVERT; 4390+95 WATER EDGE; 4391+63 WATER EDGE; 4399+34 FENCE LT 23'; 4399+47 FENCE; 4399+67 FENCE; 4399+67 FENCE POST LT 23'; 4399+69 FENCE

## ENGINEERING DATA — MATERIAL

1342'-6" CCC; 7 / 5000'; 235'-6" CCC

4352+11; 4355+52; 4355+75; 4359+74; 4359+95; 4365+60; 4366+53; 4370+97; 4373+16; 4376+37; 4386+21; 4390+14; 4392+49; 4396+21

| | |
|---|---|
| REFERENCE DRAWING | |
| CLASS LOCATION | Class I |
| MINIMUM DEPTH OF COVER | 3' \| 4' \| 3' \| 4' \| 3' \| 5' \| 3' \| 5' \| 3' |
| AC MITIGATION / CATHODIC PROTECTION | |

## ENVIRONMENTAL DATA

| | |
|---|---|
| WATERBODY/WETLAND CROSSINGS | W-432; WB-S2; W-433; W-434; WB-S4; W-435; WB-S6 |
| WATERBODY/WETLAND LENGTH | 569'; 13'; 464'; 7'; 7'; 2' |
| STATIONS | 4355+55; 4355+75; 4359+74; 4359+95; 4360+04; 4360+24; 4365+61; 4365+83; 4366+00; 4366+05; 4366+40; 4370+70; 4370+97; 4372+16; 4372+39; 4372+50; 4372+65; 4372+80; 4372+83; 4372+90; 4376+37 |
| PERMANENT EROSION CONTROL — EROSION CONTROL CODE | THIS BAND NOT UTILIZED |
| PERMANENT EROSION CONTROL — SLOPE BREAKER CODE | THIS BAND NOT UTILIZED |
| PERMANENT EROSION CONTROL — TOPSOIL SALVAGE | THIS BAND NOT UTILIZED |
| THREATENED AND ENDANGERED SPECIES | |
| SPECIAL CONDITIONS — TIMING CONSTRAINT | THIS BAND NOT UTILIZED |
| SPECIAL CONDITIONS — CONSTRAINT 2 | THIS BAND NOT UTILIZED |
| SPECIAL CONDITIONS — CONSTRAINT 3 | THIS BAND NOT UTILIZED |
| SPECIAL CONDITIONS — CONSTRAINT 4 | THIS BAND NOT UTILIZED |

MATCHLINE 4350+00 — MATCHLINE 4400+00

## BILL OF MATERIALS

| ITEM NO. | QTY | UOM | REQ'N NUMBER | MATERIAL NUMBER | DESCRIPTION |
|---|---|---|---|---|---|
| 7 | 5000 | FT | | | 30" O.D. x 0.429" W.T., API 5L, X70, PSL2, DSAW, 14-16 MLS FBE |

## MISCELLANEOUS MATERIALS

| QTY | UOM | REQ'N NUMBER | MATERIAL NUMBER | DESCRIPTION |
|---|---|---|---|---|
| 0 | EA | | | SET ON WEIGHTS |
| 3 | EA | | | PIPELINE MARKERS |
| 7 | EA | | | WARNING SIGNS |
| 0 | EA | | | CP TEST STATION TYPE 1 |
| 0 | EA | | | CP TEST STATION TYPE 2 |
| 0 | EA | | | AERIAL MARKERS |
| 0 | EA | | | ANODE BED DEEP WELL |

## FITTINGS SUMMARY

| ITEM NO. | QTY | UOM | REQ'N NUMBER | MATERIAL NUMBER | DESCRIPTION |
|---|---|---|---|---|---|

## CONTINUOUS CONCRETE COATING

| QTY | UOM | REQ'N NUMBER | MATERIAL NUMBER | DESCRIPTION |
|---|---|---|---|---|
| 1577 | FT | | | 6" OF CONTINUOUS CONCRETE COATING (140 PCF DENSITY CONCRETE) |

## PIPE COATING DATA

PIPE COATING: 14 MIL MINIMUM FBE AND 24 MIL MINIMUM ARO
GIRTH WELD COATING: 2 PART EPOXY
INTERNAL COATING (YES/NO): NO

## PIPE ASSEMBLIES

| QTY | UOM | DESCRIPTION |
|---|---|---|

## TYPICAL DRAWINGS

| DWG/FIELD BOOK NO. | TITLE |
|---|---|
| 21040-510-TYP-20001 | CATHODIC PROTECTION STD. SINGLE POINT TEST STATION, TYPE 1 |
| 21040-510-TYP-20002 | CATHODIC PROTECTION STD. FOREIGN PIPELINE CROSSING TEST STATION, TYPE 2 |
| 21040-510-TYP-20028<br>21040-510-TYP-20029 | TYPICAL OPEN CUT / BORE |
| 21040-510-TYP-20112 | CONTINUOUS CONCRETE COATING STANDARD FOR 36" / 30" PIPELINE |
| 21040-510-TYP-20113 | TYPICAL SADDLE BAG WEIGHTS |
| 21040-510-TYP-20114 | WARNING SIGN DETAIL |
| 21040-510-TYP-20115 | AERIAL MARKER INSTALLATION DETAIL |
| 21040-510-TYP-20116 | AERIAL MARKER DETAIL |
| 21040-510-TYP-20117 | TYPICAL PIPELINE MARKER ASSEMBLY |
| 21040-510-TYP-20118 | PIPELINE MARKER "WARNING" DECAL |

## GENERAL INFORMATION

1. THE MINIMUM DEPTH OF COVER FOR THE PROJECT IS 36 INCHES. ADDITIONAL DEPTH OF COVER IS REQUIRED FOR ROAD AND WATERBODY CROSSINGS, AND IS TO BE IN ACCORDANCE WITH REFERENCED PERMIT DRAWINGS, SITE SPECIFIC DRAWINGS, OR CONSTRUCTION SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
2. THE BOUNDARIES OF ALL WORK AREAS WILL BE CLEARLY MARKED AND ALL WORK SHALL REMAIN WITHIN THE DESIGNATED WORK AREA.
3. THE REQUIRED STATE ONE CALL NOTIFICATION IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR.
4. THE CONTRACTOR SHALL ACCESS THE WORK AREA USING ONLY PUBLIC ROADS AND APPROVED ACCESS ROADS.
5. ADDITIONAL WARNING SIGNS MAY BE REQUIRED AS DICTATED BY CONSTRUCTION CONTRACT.
6. MAP PROJECTION: NAD 1983 HARN STATE PLANE FLORIDA EAST FIPS 0901 FEET. VERTICAL DATUM: NAVD 88.

## SPECIAL NOTES

1. INDUCTION BEND QUANTITIES ALONG WITH THEIR DESCRIPTIONS ARE LOCATED ON DRAWING 21040-505-FBW-00001.
2. SEE ARK DRAWING PACKAGE FOR ANODE BED DEEP WELL.

## LEGEND

HDD PIPE; BORE PIPE; LINE PIPE; 36 RUD PIT; INDUCTION BEND; TRANSITION PIPE; CONT. CONC. COAT.; SET-ON WEIGHTS; WARNING SIGN; MATERIAL ITEM; AERIAL MARKER; CP TEST STATION; BV MOV / BV & CV; PIPELINE MARKER; PIPELINE MILEPOST; ANODE BED DEEP WELL; PIPELINE ROUTE; FENCE; POWER LINE; TELEPHONE LINE; WATERLINE; SEWER LINE; BURIED CABLE; UTILITY LINE; GENERAL SURVEY; FOREIGN PIPELINE; RAILROAD; HIGHWAY / ROAD; PRIVATE ACCESS / SHIDDLY ROAD; COUNTY BOUNDARY; ROW PARCEL; PLSS SECTION LINE; TRAP; WATER WELL; HDD ENTRY / EXIT; PERMANENT ROW; TEMPORARY WORKSPACE; ADDITIONAL TEMPORARY WORKSPACE; NON FORESTED WETLAND; FORESTED WETLAND; WATERBODY; PARCEL NUMBER; WETLAND / WATERBODY NAME; ROADWAY; ROADWAY BUFFER (1000 FEET); TYPICAL / DETAIL CONFIGURATION; POINT OF INTERSECTION (PI); VERTICAL FITTING; SPREAD BREAK; ENVIRONMENTAL SURVEY AREA

## REVISIONS

| NO. | DESCRIPTION | DATE | REV BY | CHK BY | APP BY |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| 1 | IFC (UPDATE ENV., RE-ROUTES, FOOT-PRINT) | 2016-04-08 | MB | MJ | RG |
| 0 | ISSUED FOR CONSTRUCTION | 2015-12-15 | MB | MJ | RG |

| | APPROVAL | COMPANY |
|---|---|---|
| ENVIRONMENTAL | | |
| LAND | | |

0 100 200 400 600 800
1 INCH = 200 FT

## APPROVALS

| | | | |
|---|---|---|---|
| DRAWN BY: | MB | CONSTRUCTION PERMIT NO. | |
| CHECKED BY: | MJ | MAINTENANCE OPERATION REGION | |
| PROJECT MANAGER | RG | MIN. TEST PRESSURE | 1816 PSI |
| PROJECT DEF. NO. | | DESIGN PRESSURE | 1440 PSI |

UniversalPegasus INTERNATIONAL — A Subsidiary of Huntington Ingalls Industries

FLORIDA SOUTHEAST CONNECTION

FLORIDA SOUTHEAST CONNECTION PROJECT

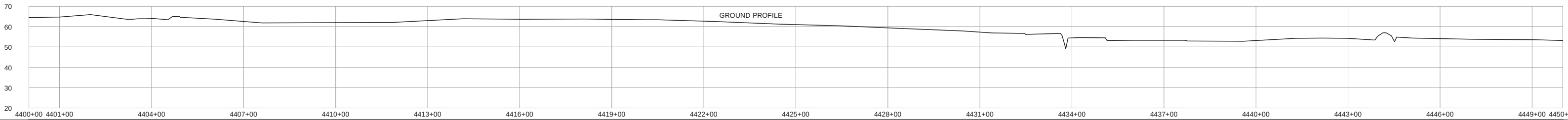
STA: 4350+00 TO 4400+00 — DISCIPLINE#: 03

# FLORIDA SOUTHEAST CONNECTION ALIGNMENT SHEET OKEECHOBEE COUNTY, FLORIDA

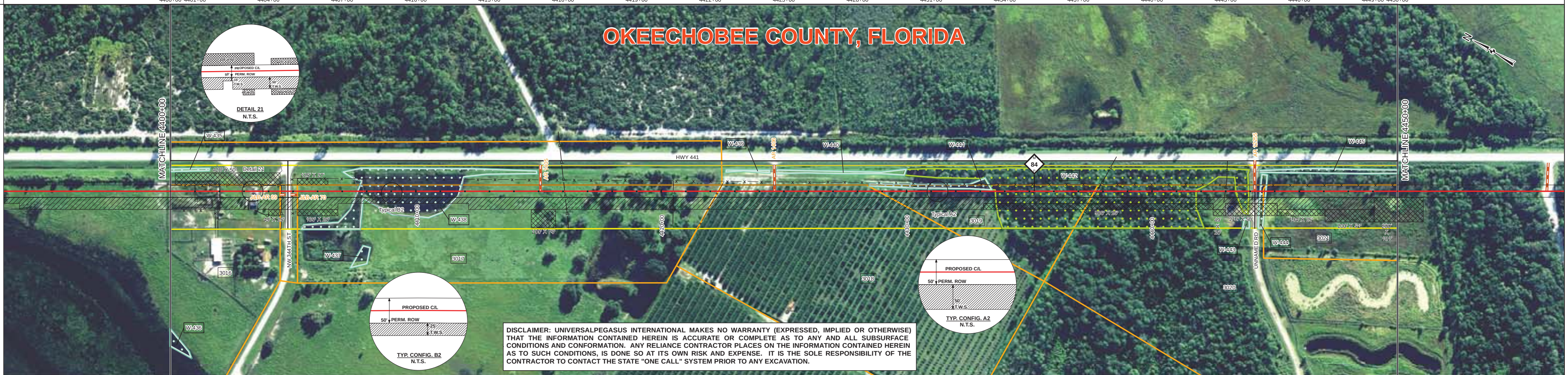
SCALE: 1" = 200' — 21040-510-ALS-00092 — REV. 1

| TRACT | MATCHLINE 4400+00 | 3016 BULL HEAD RANCH, INC. 447 FT 4400+00 TO 4404+47 | NW 344TH ST OKEECHOBEE COUNTY 70 FT 4404+47 TO 4405+17 | 3017 STEVEN MICHAEL SMITH 1716 FT 4405+17 TO 4422+33 | 3018 DAVID R. LAWSON, JR. 649 FT 4422+33 TO 4428+82 | 3019 DAVID R. LAWSON, JR. 884 FT 4428+82 TO 4437+66 | 3020 PAUL CALCATERRA 688 FT 4437+66 TO 4444+54 | 3021 PAUL CALCATERRA 546 FT 4444+54 TO 4450+00 | MATCHLINE 4450+00 |
|---|---|---|---|---|---|---|---|---|---|

GROUND PROFILE HORIZ: 1" = 200' VERT: 1" = 30'




SCALE: 1" = 200'

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## SURVEY DATA — STATIONING

MATCHLINE 4400+00

4400+85 GUY ANCHOR LT 26'
4400+99 FENCE CORNER LT 24'
4401+00 FENCE
4401+00 FENCE CORNER RT 26'
4401+00 FENCE CORNER RT 43'
4401+00 FENCE CORNER RT 70'
4401+02 POWER POLE LT 26'
4401+09 FENCE CORNER RT 43'
4401+10 FENCE CORNER RT 26'
4401+69 FENCE CORNER RT 69'
4401+71 FENCE CORNER RT 40'
4402+01 FENCE
4402+01 FENCE CORNER LT 25'
4402+02 CATTLE RAMP RT 68'
4402+11 OVERHEAD POWER LT 26'
4402+62 CONCRETE SLAB RT 59'
4402+70 CONCRETE SLAB RT 54'
4402+93 ROAD EDGE
4403+38 CONCRETE SLAB LT 24'
4403+55 CONCRETE SLAB LT 24'
4403+56 CONCRETE SLAB RT 49'
4404+03 ROAD EDGE
4404+31 OVERHEAD POWER LT 23'
4404+43 LIGHT BASE LT 21'
4404+51 POWER POLE LT 25'
4404+52 POWER LINE
4404+66 GUY ANCHOR LT 24'
4404+68 ROAD EDGE
4404+78 NW 344TH ST.
4404+89 ROAD EDGE
4404+94 FENCE
4405+17 IRON PIPE LT 26'
4407+59 WATER EDGE
4407+86 WATER EDGE
4411+83 WATER EDGE
4415+07 CL AR 1405
4416+06 POWER LINE
4420+48 POWER LINE
4420+49 POWER POLE RT 71'
4422+34 FENCE
4422+47 MONUMENT LT 25'
4424+62 CL AR 1406
4429+96 CULVERT LT 19'
4430+26 CULVERT LT 16'
4430+54 CULVERT LT 16'
4431+73 CULVERT LT 17'
4433+68 TOP OF BANK
4433+87 TOP OF BANK
4437+77 POWER LINE
4442+93 POWER POLE RT 47'
4442+94 PARKING LOT RT 61'
4442+99 POWER LINE
4443+01 GUY ANCHOR LT 13'
4443+29 PARKING LOT RT 56'
4443+56 PARKING LOT RT 86'
4443+86 TOE OF SLOPE
4443+89 CULVERT RT 95'
4443+89 PARKING LOT RT 98'
4443+96 TOP OF BANK
4444+00 PARKING LOT RT 95'
4444+12 PARKING LOT RT 83'
4444+13 ROAD EDGE
4444+19 CL AR 12255
4444+19 UNNAMED RD
4444+25 ROAD EDGE
4444+42 TOP OF BANK
4444+51 TOE OF SLOPE
4444+53 IRON ROD RT 1'
4444+59 TOP OF BANK
4444+79 IRON ROD LT 25'

MATCHLINE 4450+00

## ENGINEERING DATA — MATERIAL

MATCHLINE 4400+00

(7) 418'; (9) 120'; 46-7K# SBW 11.5 CC; (7) 3861'; 1081'-6" CCC; (9) 40'; 68'-6" CCC; (7) 511'; (12) 50'

4403+03, 4404+18, 4404+46, 4405+16, 4405+38, 4407+11, 4412+29, 4412+41, 4414+97, 4422+33, 4432+31, 4433+12, 4441+91, 4443+93, 4443+99, 4444+03, 4444+36, 4444+39, 4444+45, 4445+13, 4449+50, 4449+52

MATCHLINE 4450+00

| | | | | | |
|---|---|---|---|---|---|
| REFERENCE DRAWING | 21040-440-PMW-00045 | | | | |
| CLASS LOCATION | Class I | | | 4449+50 | Class III |
| MINIMUM DEPTH OF COVER | 3' | 4' | SEE REF DWG | 3' | 4' | 3' |
| AC MITIGATION / CATHODIC PROTECTION | | | | | |

## ENVIRONMENTAL DATA

| | | | | |
|---|---|---|---|---|
| WATERBODY/WETLAND CROSSINGS | W-438 | W-442 | W-442 | W-444 |
| WATERBODY/WETLAND LENGTH | 414' | 818' | 52' | 21' |

STATIONS (MATCHLINE 4400+00): 4402+12, 4404+18, 4405+38, 4407+63, 4411+77, 4433+62, 4441+80, 4443+09, 4443+41, 4443+93, 4444+29, 4444+42, 4444+63 (MATCHLINE 4450+00)

| | | |
|---|---|---|
| PERMANENT EROSION CONTROL | EROSION CONTROL CODE | THIS BAND NOT UTILIZED |
| | SLOPE BREAKER CODE | THIS BAND NOT UTILIZED |
| | TOPSOIL SALVAGE | THIS BAND NOT UTILIZED |
| THREATENED AND ENDANGERED SPECIES | | |
| SPECIAL CONDITIONS | TIMING CONSTRAINT | THIS BAND NOT UTILIZED |
| | CONSTRAINT 2 | THIS BAND NOT UTILIZED |
| | CONSTRAINT 3 | THIS BAND NOT UTILIZED |
| | CONSTRAINT 4 | THIS BAND NOT UTILIZED |

## BILL OF MATERIALS

| ITEM NO. | QTY | UOM | REQ'N NUMBER | MATERIAL NUMBER | DESCRIPTION |
|---|---|---|---|---|---|
| 7 | 4790 | FT | | | 30" O.D. x 0.429" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE |
| 9 | 160 | FT | | | 30" O.D. x 0.514" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE & 24-30 MILS ARO |
| 12 | 50 | FT | | | 30" O.D. x 0.617" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE |

## FITTINGS SUMMARY

| ITEM NO. | QTY | UOM | REQ'N NUMBER | MATERIAL NUMBER | DESCRIPTION |
|---|---|---|---|---|---|

## PIPE ASSEMBLIES

| QTY | UOM | DESCRIPTION |
|---|---|---|

## MISCELLANEOUS MATERIALS

| QTY | UOM | REQ'N NUMBER | MATERIAL NUMBER | DESCRIPTION |
|---|---|---|---|---|
| 46 | EA | | | SET ON WEIGHTS |
| 3 | EA | | | PIPELINE MARKERS |
| 6 | EA | | | WARNING SIGNS |
| 2 | EA | | | CP TEST STATION TYPE 1 |
| 0 | EA | | | CP TEST STATION TYPE 2 |
| 0 | EA | | | AERIAL MARKERS |
| 0 | EA | | | ANODE BED DEEP WELL |

## CONTINUOUS CONCRETE COATING

| QTY | UOM | REQ'N NUMBER | MATERIAL NUMBER | DESCRIPTION |
|---|---|---|---|---|
| 1149 | FT | | | 6" OF CONTINUOUS CONCRETE COATING (140 PCF DENSITY CONCRETE) |

## PIPE COATING DATA

PIPE COATING: 14 MIL MINIMUM FBE AND 24 MIL MINIMUM ARO
GIRTH WELD COATING: 2 PART EPOXY
INTERNAL COATING (YES/NO): NO

## TYPICAL DRAWINGS

| DWG/FIELD BOOK NO. | TITLE |
|---|---|
| 21040-510-TYP-20001 | CATHODIC PROTECTION STD. SINGLE POINT TEST STATION, TYPE 1 |
| 21040-510-TYP-20002 | CATHODIC PROTECTION STD. FOREIGN PIPELINE CROSSING TEST STATION, TYPE 2 |
| 21040-510-TYP-20028 21040-510-TYP-20029 | TYPICAL OPEN CUT / BORE |
| 21040-510-TYP-20112 | CONTINUOUS CONCRETE COATING STANDARD FOR 36" / 30" PIPELINE |
| 21040-510-TYP-20113 | TYPICAL SADDLE BAG WEIGHTS |
| 21040-510-TYP-20114 | WARNING SIGN DETAIL |
| 21040-510-TYP-20115 | AERIAL MARKER INSTALLATION DETAIL |
| 21040-510-TYP-20116 | AERIAL MARKER DETAIL |
| 21040-510-TYP-20117 | TYPICAL PIPELINE MARKER ASSEMBLY |
| 21040-510-TYP-20118 | PIPELINE MARKER "WARNING" DECAL |

## GENERAL INFORMATION

1. THE MINIMUM DEPTH OF COVER FOR THE PROJECT IS 36 INCHES. ADDITIONAL DEPTH OF COVER IS REQUIRED FOR ROAD AND WATERBODY CROSSINGS, AND IS TO BE IN ACCORDANCE WITH REFERENCED PERMIT DRAWINGS, SITE SPECIFIC DRAWINGS, OR CONSTRUCTION SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
2. THE BOUNDARIES OF ALL WORK AREAS WILL BE CLEARLY MARKED AND ALL WORK SHALL REMAIN WITHIN THE DESIGNATED WORK AREA.
3. THE REQUIRED STATE ONE CALL NOTIFICATION IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR.
4. THE CONTRACTOR SHALL ACCESS THE WORK AREA USING ONLY PUBLIC ROADS AND APPROVED ACCESS ROADS.
5. ADDITIONAL WARNING SIGNS MAY BE REQUIRED AS DICTATED BY CONSTRUCTION CONTRACT.
6. MAP PROJECTION: NAD 1983 HARN STATE PLANE FLORIDA EAST FIPS 0901 FEET. VERTICAL DATUM: NAVD 88.

## SPECIAL NOTES

1. INDUCTION BEND QUANTITIES ALONG WITH THEIR DESCRIPTIONS ARE LOCATED ON DRAWING 21040-505-FBW-00001.
2. Ⓐ - SEE ARK DRAWING PACKAGE FOR ANODE BED DEEP WELL.

## LEGEND

HDD PIPE; BORE PIPE; LINE PIPE; 3R RAD FIT; INDUCTION BEND; TRANSITION PIPE; CONT. CONC. COAT.; SET-ON WEIGHTS; WARNING SIGN; MATERIAL ITEM; AERIAL MARKER; CP TEST STATION; BV MOV / BV & CV; PIPELINE MARKER; PIPELINE MILEPOST; ANODE BED DEEP WELL; PIPELINE ROUTE; FENCE; POWER LINE; TELEPHONE LINE; WATERLINE; SEWER LINE; BURIED CABLE; UTILITY LINE; GENERAL SURVEY; FOREIGN PIPELINE; RAILROAD; HIGHWAY / ROAD; PRIVATE ACCESS / SHOOFLY ROAD; COUNTY BOUNDARY; ROW PARCEL; PLSS SECTION LINE; TRAP; WATER WELL; HDD ENTRY / EXIT; PERMANENT ROW; TEMPORARY WORKSPACE; ADDITIONAL TEMPORARY WORKSPACE; NON FORESTED WETLAND; FORESTED WETLAND; WATERBODY; PARCEL NUMBER; WETLAND / WATERBODY NAME; ROOKERY; ROOKERY BUFFER (1000 FEET); TYPICAL / DETAIL CONFIGURATION; POINT OF INTERSECTION (PI); VERTICAL FITTING; SPREAD BREAK; ENVIRONMENTAL SURVEY AREA

## REVISIONS

| NO. | DESCRIPTION | DATE | REV BY | CHK BY | APP BY |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| 1 | IFC (UPDATE ENV., RE-ROUTES, FOOT-PRINT) | 2016-04-08 | MB | MJ | RG |
| 0 | ISSUED FOR CONSTRUCTION | 2015-12-15 | MB | MJ | RG |

| | APPROVAL | COMPANY |
|---|---|---|
| ENVIRONMENTAL | | |
| LAND | | |

0 100 200 400 600 800
1 INCH = 200 FT

## APPROVALS

| | | |
|---|---|---|
| DRAWN BY: | MB | CONSTRUCTION PERMIT NO. |
| CHECKED BY: | MJ | MAINTENANCE OPERATION REGION |
| PROJECT MANAGER | RG | MIN. TEST PRESSURE 1816 PSI |
| PROJECT DEF. NO. | | DESIGN PRESSURE 1440 PSI |

UniversalPegasus INTERNATIONAL — A Subsidiary of Huntington Ingalls Industries
FLORIDA SOUTHEAST CONNECTION

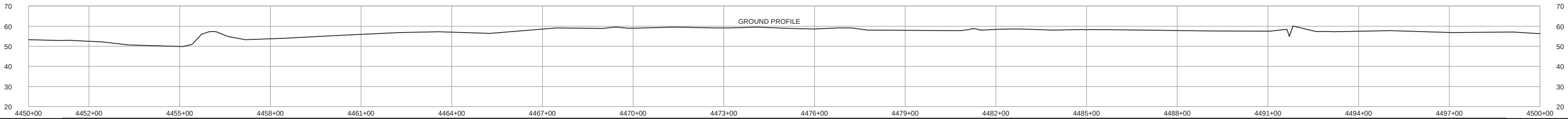
FLORIDA SOUTHEAST CONNECTION PROJECT
STA: 4400+00 TO 4450+00 — DISCIPLINE#: 03

# FLORIDA SOUTHEAST CONNECTION ALIGNMENT SHEET OKEECHOBEE COUNTY, FLORIDA

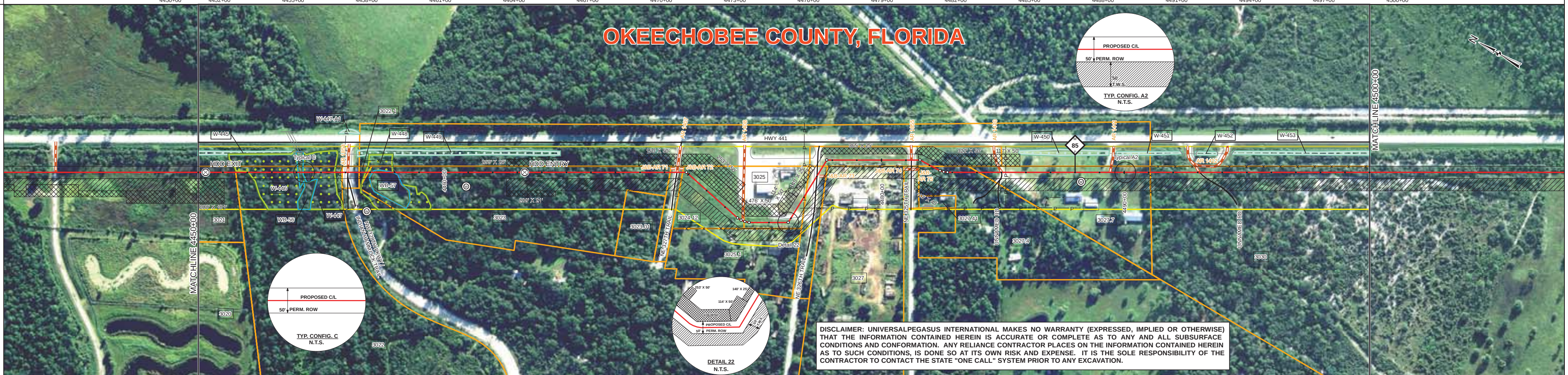
SCALE: 1" = 200' | 21040-510-ALS-00093 | REV. 1

| TRACT | MATCHLINE 4450+00 | 3021 PAUL CALCATERRA 152 FT 4450+00 TO 4451+52 | 3022 INDIAN HAMMOCK HUNT AND RIDING CLUB, INC. 433 FT 4451+52 TO 4455+85 | NW 328TH PKWY / INDIAN HAMMOCK TRAIL OKEECHOBEE COUNTY 70 FT 4455+85 TO 4456+55 | 3022.1 INDIAN HAMMOCK HUNT AND RIDING CLUB, LTD 37 FT 4456+55 TO 4456+92 | 3023 TONYA CAMPBELL FORD 1231 FT 4456+92 TO 4469+23 | NE 327TH TRAIL OKEECHOBEE COUNTY 51 FT 4469+23 TO 4469+74 | 3024.12 FORT DRUM INVESTMENTS, INC. 324 FT 4469+74 TO 4472+98 | 3025 FORT DRUM INVESTMENTS, INC. 317 FT 4472+98 TO 4476+15 | NE 326TH TRAIL OKEECHOBEE COUNTY 133 FT 4476+15 TO 4477+48 | FLORIDA DEPARTMENT OF TRANSPORTATION 463 FT 4477+48 TO 4482+11 | 3027.4 BURELL C. ROGERS 196 FT 4482+11 TO 4484+07 | 3027.7 FT. DRUM COMMUNITY CHURCH 699 FT 4484+07 TO 4491+06 | 3030 FORT DRUM LAND HOLDINGS, LLC 894 FT 4491+06 TO 4500+00 | MATCHLINE 4500+00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

GROUND PROFILE
HORIZ: 1" = 200'
VERT: 1" = 30'




SCALE: 1" = 200'

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## SURVEY DATA — STATIONING

MATCHLINE 4450+00
4450+30 HDD EXIT
4451+47 FENCE
4455+41 TOE OF SLOPE
4455+73 TOP OF BANK
4455+78 POWER LINE
4455+97 ROAD EDGE
4456+09 NW 328TH PKWY / INDIAN HAMMOCK TRAIL
4456+09 CL AR 1854
4456+21 ROAD EDGE
4456+59 FENCE
4457+19 WATER EDGE
4458+06 WATER EDGE
4463+30 HDD ENTRY
4469+40 ROAD EDGE
4469+50 CL AR 1407
4469+50 NE 327TH TRAIL
4469+61 ROAD EDGE
4469+61 POWER LINE
4469+68 MONUMENT LT 25'
4469+78 IRON ROD LT 24'
4469+89 PI 41°50'17" RT
4472+46 PARKING LOT LT 28'
4472+68 PI 11°43'56" LT
4472+85 PI 10°1'20" LT
4472+92 CL AR 1408
4473+02 PI 10°1'20" LT
4473+19 PI 10°1'20" LT
4473+82 PARKING LOT LT 53'
4474+02 PARKING LOT RT 1'
4474+02 ROAD EDGE
4474+47 PARKING LOT LT 21'
4474+56 WELL PAD LT 28'
4474+67 PARKING LOT LT 17'
4474+79 PI 58°17'15" LT
4474+84 FENCE CORNER RT 58'
4474+85 IRON ROD RT 58'
4474+96 PARKING LOT LT 2'
4474+97 WELL PAD LT 21'
4474+98 ROAD EDGE
4474+98 PARKING LOT RT 38'
4475+03 OVERHEAD POWER RT 58'
4475+07 PARKING LOT RT 55'
4475+08 PARKING LOT RT 68'
4475+41 GUY ANCHOR RT 37'
4475+53 GUY ANCHOR RT 10'
4475+55 PARKING LOT RT 62'
4475+61 POWER POLE RT 24'
4475+85 OVERHEAD POWER RT 60'
4475+99 POWER LINE
4476+16 OVERHEAD POWER LT 47'
4476+41 POWER POLE LT 24'
4476+77 ROAD EDGE
4477+01 NE 326TH TRAIL
4477+19 IRON ROD LT 46'
4477+22 ROAD EDGE
4477+24 PARKING LOT LT 26'
4477+25 PEDESTAL LT 49'
4477+53 FENCE CORNER RT 12'
4477+77 PI 58°14'54" RT
4477+77 STOP SIGN LT 40'
4480+81 STREET SIGN LT 42'
4480+84 FENCE CORNER RT 27'
4481+11 ROAD EDGE
4481+22 NE 325TH TRAIL
4481+22 CL AR 1855
4481+32 ROAD EDGE
4481+43 STOP SIGN LT 30'
4481+47 UNDERGROUND TELEPHONE RT 31'
4481+49 FIBER LINE
4481+49 POWER POLE LT 21'
4481+50 GUY ANCHOR LT 6'
4481+57 PEDESTAL LT 44'
4481+57 PI 27°38'18" RT
4481+64 IRON ROD RT 25'
4481+66 UNDERGROUND TELEPHONE RT 30'
4482+49 PI 10°7'39" LT
4482+65 PI 8°45'19" LT
4482+81 PI 8°45'19" LT
4483+65 MONUMENT LT 25'
4485+00 UNNAMED RD
4485+00 CL AR 1410
4485+17 POWER LINE
4488+20 PUMP HOUSE RT 60'
4488+22 WATER WELL RT 36'
4488+25 WATER WELL RT 39'
4488+27 PUMP HOUSE RT 60'
4488+28 WATER WELL RT 35'
4489+42 CL AR 1411
4491+05 MONUMENT LT 25'
4491+06 FENCE CORNER LT 24'
4491+07 FENCE
4491+63 TOP OF BANK
4491+71 TOE OF SLOPE
4491+83 TOP OF BANK
4492+99 ROAD EDGE
4493+08 CL AR 1412
4493+08 UNNAMED RD
4493+18 ROAD EDGE
MATCHLINE 4500+00

## ENGINEERING DATA — MATERIAL

MATCHLINE 4450+00

(12) 30'; 8°; (10) 1300'; 10°; (12) 573'; (10) 80'; IB-216; (12) 617'; IB-201; (10) 160'; IB-202; (12) 312'; (10) 80'; (12) 1848'; 85

4450+30, 4450+30, 4451+47, 4455+84, 4456+59, 4458+02, 4463+30, 4463+30, 4465+46, 4469+03, 4469+83, 4469+89, 4469+89, 4473+02, 4474+79, 4474+79, 4476+00, 4477+60, 4477+77, 4477+77, 4480+72, 4481+52, 4481+57, 4482+65, 4485+11, 4491+07, 4493+29, 4495+11

MATCHLINE 4500+00

| | |
|---|---|
| REFERENCE DRAWING | 21040-440-PMW-00065 21040-505-HDW-12012; 21040-440-PMW-00066; 21040-440-PMW-00046; 21040-440-PMW-00063 |
| CLASS LOCATION | Class III |
| MINIMUM DEPTH OF COVER | 3'; SEE REF DWG; 3'; SEE REF DWG; 5'; SEE REF DWG; 5'; SEE REF DWG; 5'; 3' |
| AC MITIGATION / CATHODIC PROTECTION | |

## ENVIRONMENTAL DATA

| | | | | | | |
|---|---|---|---|---|---|---|
| WATERBODY/WETLAND CROSSINGS | W-446 | WB-56 | W-447 | W-448 | WB-57 |
| WATERBODY/WETLAND LENGTH | 203' | 19' | 128' | 29' | 84' |

STATIONS

MATCHLINE 4450+00

4450+30, 4452+04, 4454+07, 4454+07, 4454+26, 4454+26, 4455+54, 4456+81, 4457+10, 4457+10, 4457+94, 4463+30, 4469+03, 4469+89, 4476+00, 4477+60, 4480+72, 4481+52, 4482+11

MATCHLINE 4500+00

| | | |
|---|---|---|
| PERMANENT EROSION CONTROL | EROSION CONTROL CODE | THIS BAND NOT UTILIZED |
| | SLOPE BREAKER CODE | THIS BAND NOT UTILIZED |
| | TOPSOIL SALVAGE | THIS BAND NOT UTILIZED |
| THREATENED AND ENDANGERED SPECIES | | |
| SPECIAL CONDITIONS | TIMING CONSTRAINT | THIS BAND NOT UTILIZED |
| | CONSTRAINT 2 | THIS BAND NOT UTILIZED |
| | CONSTRAINT 3 | THIS BAND NOT UTILIZED |
| | CONSTRAINT 4 | THIS BAND NOT UTILIZED |

## BILL OF MATERIALS

| ITEM NO. | QTY | UOM | REQ'N NUMBER | MATERIAL NUMBER | DESCRIPTION |
|---|---|---|---|---|---|
| 10 | 1620 | FT | | | 30" O.D. x 0.617" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE & 24-30 MILS ARO |
| 12 | 3380 | FT | | | 30" O.D. x 0.617" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE |

## FITTINGS SUMMARY

| ITEM NO. | QTY | UOM | REQ'N NUMBER | MATERIAL NUMBER | DESCRIPTION |
|---|---|---|---|---|---|
| | 1 | EA | | | 10° 3R VERTICAL FITTING |
| | 1 | EA | | | 8° 3R VERTICAL FITTING |

## PIPE ASSEMBLIES

| QTY | UOM | DESCRIPTION |
|---|---|---|
| | | |

## MISCELLANEOUS MATERIALS

| QTY | UOM | REQ'N NUMBER | MATERIAL NUMBER | DESCRIPTION |
|---|---|---|---|---|
| 0 | EA | | | SET ON WEIGHTS |
| 8 | EA | | | PIPELINE MARKERS |
| 5 | EA | | | WARNING SIGNS |
| 1 | EA | | | CP TEST STATION TYPE 1 |
| 0 | EA | | | CP TEST STATION TYPE 2 |
| 1 | EA | | | AERIAL MARKERS |
| 0 | EA | | | ANODE BED DEEP WELL |

## CONTINUOUS CONCRETE COATING

| QTY | UOM | REQ'N NUMBER | MATERIAL NUMBER | DESCRIPTION |
|---|---|---|---|---|
| | | | | |

## PIPE COATING DATA

PIPE COATING: 14 MIL MINIMUM FBE AND 24 MIL MINIMUM ARO
GIRTH WELD COATING: 2 PART EPOXY
INTERNAL COATING (YES/NO): NO

## TYPICAL DRAWINGS

| DWG/FIELD BOOK NO. | TITLE |
|---|---|
| 21040-510-TYP-20001 | CATHODIC PROTECTION STD. SINGLE POINT TEST STATION, TYPE 1 |
| 21040-510-TYP-20002 | CATHODIC PROTECTION STD. FOREIGN PIPELINE CROSSING TEST STATION, TYPE 2 |
| 21040-510-TYP-20028 21040-510-TYP-20029 | TYPICAL OPEN CUT / BORE |
| 21040-510-TYP-20112 | CONTINUOUS CONCRETE COATING STANDARD FOR 36" / 30" PIPELINE |
| 21040-510-TYP-20113 | TYPICAL SADDLE BAG WEIGHTS |
| 21040-510-TYP-20114 | WARNING SIGN DETAIL |
| 21040-510-TYP-20115 | AERIAL MARKER INSTALLATION DETAIL |
| 21040-510-TYP-20116 | AERIAL MARKER DETAIL |
| 21040-510-TYP-20117 | TYPICAL PIPELINE MARKER ASSEMBLY |
| 21040-510-TYP-20118 | PIPELINE MARKER "WARNING" DECAL |

## GENERAL INFORMATION

1. THE MINIMUM DEPTH OF COVER FOR THE PROJECT IS 36 INCHES. ADDITIONAL DEPTH OF COVER IS REQUIRED FOR ROAD AND WATERBODY CROSSINGS, AND IS TO BE IN ACCORDANCE WITH REFERENCED PERMIT DRAWINGS, SITE SPECIFIC DRAWINGS, OR CONSTRUCTION SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
2. THE BOUNDARIES OF ALL WORK AREAS WILL BE CLEARLY MARKED AND ALL WORK SHALL REMAIN WITHIN THE DESIGNATED WORK AREA.
3. THE REQUIRED STATE ONE CALL NOTIFICATION IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR.
4. THE CONTRACTOR SHALL ACCESS THE WORK AREA USING ONLY PUBLIC ROADS AND APPROVED ACCESS ROADS.
5. ADDITIONAL WARNING SIGNS MAY BE REQUIRED AS DICTATED BY CONSTRUCTION CONTRACT.
6. MAP PROJECTION: NAD 1983 HARN STATE PLANE FLORIDA EAST FIPS 0901 FEET. VERTICAL DATUM: NAVD 88.

## SPECIAL NOTES

1. INDUCTION BEND QUANTITIES ALONG WITH THEIR DESCRIPTIONS ARE LOCATED ON DRAWING 21040-505-FBW-00001.
2. Ⓐ - SEE ARK DRAWING PACKAGE FOR ANODE BED DEEP WELL.

## LEGEND

HDD PIPE; BORE PIPE; LINE PIPE; 3R RAD FIT; INDUCTION BEND; TRANSITION PIPE; CONT. CONC. COAT.; SET-ON WEIGHTS; WARNING SIGN; MATERIAL ITEM (101); AERIAL MARKER; CP TEST STATION; BV MOV / BV & CV; PIPELINE MARKER; PIPELINE MILEPOST; ANODE BED DEEP WELL; PIPELINE ROUTE; FENCE (X); POWER LINE (P); TELEPHONE LINE (T); WATERLINE (W); SEWER LINE (S); BURIED CABLE (C); UTILITY LINE (U); GENERAL SURVEY; FOREIGN PIPELINE; RAILROAD; HIGHWAY / ROAD; PRIVATE ACCESS / SHOOFLY ROAD; COUNTY BOUNDARY; ROW PARCEL; PLSS SECTION LINE; TRAP; WATER WELL; HDD ENTRY / EXIT; PERMANENT ROW; TEMPORARY WORKSPACE; ADDITIONAL TEMPORARY WORKSPACE; NON FORESTED WETLAND; FORESTED WETLAND; WATERBODY; PARCEL NUMBER (XXXXX.XXX); WETLAND / WATERBODY NAME (XXXXXXXX); ROOKERY; ROOKERY BUFFER (1000 FEET); TYPICAL / DETAIL CONFIGURATION; POINT OF INTERSECTION (PI); VERTICAL FITTING; SPREAD BREAK; ENVIRONMENTAL SURVEY AREA

## REVISIONS

| NO. | DESCRIPTION | DATE | REV BY | CHK BY | APP BY |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| 1 | IFC (UPDATE ENV., RE-ROUTES, FOOT-PRINT) | 2016-04-08 | MB | MJ | RG |
| 0 | ISSUED FOR CONSTRUCTION | 2015-12-15 | MB | MJ | RG |

| | APPROVAL | COMPANY |
|---|---|---|
| ENVIRONMENTAL | | |
| LAND | | |

0 100 200 400 600 800
1 INCH = 200 FT

## APPROVALS

| | | |
|---|---|---|
| DRAWN BY: | MB | CONSTRUCTION PERMIT NO. |
| CHECKED BY: | MJ | MAINTENANCE OPERATION REGION |
| PROJECT MANAGER | RG | MIN. TEST PRESSURE 1816 PSI |
| PROJECT DEF. NO. | | DESIGN PRESSURE 1440 PSI |

UniversalPegasus INTERNATIONAL A Subsidiary of Huntington Ingalls Industries — FLORIDA SOUTHEAST CONNECTION

FLORIDA SOUTHEAST CONNECTION PROJECT

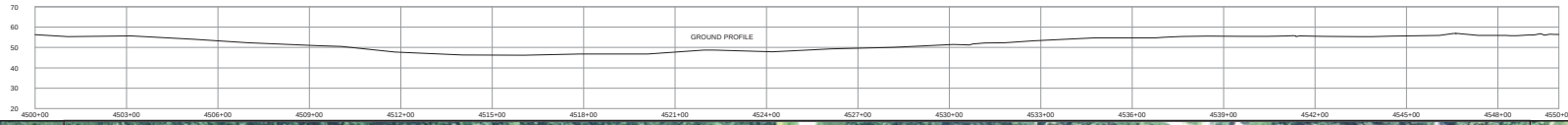
STA: 4450+00 TO 4500+00 — DISCIPLINE#: 03

# FLORIDA SOUTHEAST CONNECTION ALIGNMENT SHEET OKEECHOBEE COUNTY, FLORIDA

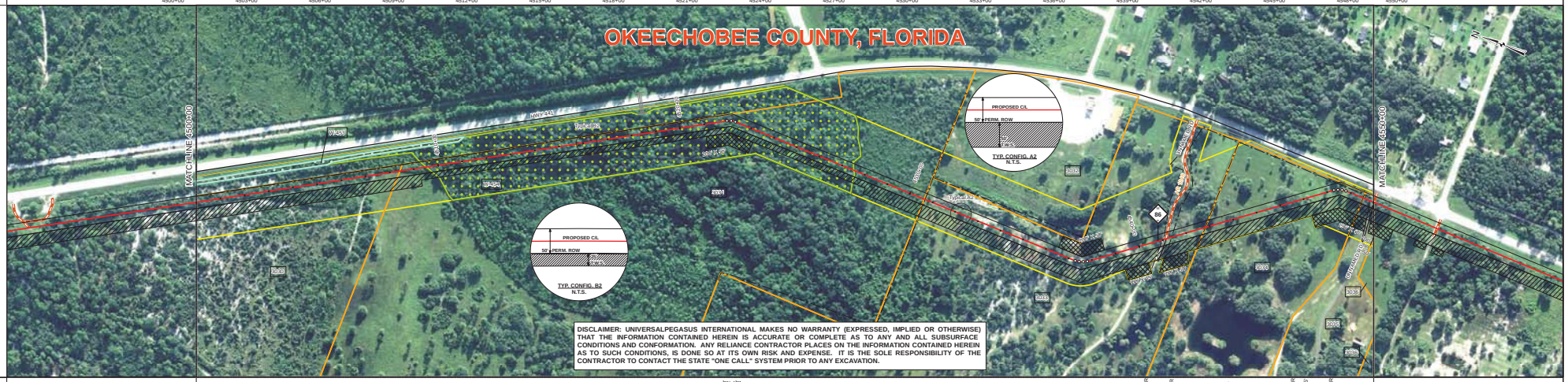
SCALE: 1" = 200' | 21040-510-ALS-00094 | REV. 1

| TRACT | MATCHLINE 4500+00 | 3030 FORT DRUM LAND HOLDINGS, LLC 842 FT 4500+00 TO 4508+42 | 3031 FORT DRUM LAND HOLDINGS, LLC 2222 FT 4508+42 TO 4530+64 | 3033 JAMES A. BURNSED AND BRENDA K. BURNSED 1217 FT 4530+64 TO 4542+81 | 3034 JAMES A. BURNSED AND BRENDA K. BURNSED 673 FT 4542+81 TO 4549+54 | 3035 JAMES SHANNON BURNSED AND BRIDGET MICHELLE BURNSED 46 FT 4549+54 TO 4550+00 | MATCHLINE 4550+00 |
|---|---|---|---|---|---|---|---|

GROUND PROFILE
HORIZ: 1" = 200'
VERT: 1" = 30'




SCALE: 1" = 200'

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## SURVEY DATA

### STATIONING

MATCHLINE 4500+00

4521+04 PI 10°03'18" RT
4522+13 PI 10°03'18" RT
4529+29 PI 6°00'00" RT
4530+66 FENCE
4531+16 TOE OF SLOPE
4531+81 TOE OF SLOPE
4537+14 TOS OF SLOPE
4537+30 PI 5°05'15" LT
4537+46 PI 5°05'15" LT
4537+65 TOP OF BANK
4537+70 TOS OF SLOPE
4537+79 PI 5°05'15" LT
4539+79 PI 5°05'15" LT
4540+59 FENCE CORNER RT 1.38'
4540+99 ROAD EDGE
4541+06 ROAD EDGE
4541+11 FENCE CORNER LT 1.13'
4541+14 CLAR 3246
4541+18 ANCHORED
4541+19 ROAD EDGE
4541+24 POLES
4542+81 FENCE
4545+26 OWNER BLOCK (AMAND,INC) RT 71'
4548+28 PI 4°40'14" RT
4548+45 PI 4°40'14" RT
4548+78 PI 4°40'14" RT
4549+32 FENCE CORNER LT 25'
4549+53 FENCE CORNER LT 1.14'
4549+63 IRON ROD LT 25'
4549+75 POLES
4549+75 PEDESTAL
4549+77 FENCE CORNER LT 1.4'
4549+80 DOWN ANCHOR RT 50'
4549+81 FENCE LT 1.4'
4549+94 POWER POLE RT 50'
MATCHLINE 4550+00

## ENGINEERING DATA

### MATERIAL

MATCHLINE 4500+00

12 — 957'
157'-6" CCC
1215'-6" CCC
6-7K# SBW 13 CC
554'-6" CCC
11 — 4043'

4509+11
4509+00
4509+57
4509+57
4515+11
4521+72
4521+78
4522+11
4522+34
4522+40
4529+03
4530+66
4537+63
4540+99
4541+38
4548+45
4548+51

MATCHLINE 4550+00

| | |
|---|---|
| REFERENCE DRAWING | |
| CLASS LOCATION | Class III \| 4509+57 \| Class II |
| MINIMUM DEPTH OF COVER | 3' |
| AC MITIGATION / CATHODIC PROTECTION | |

## ENVIRONMENTAL DATA

| | | |
|---|---|---|
| WATERBODY/WETLAND CROSSINGS | | W-454 |
| WATERBODY/WETLAND LENGTH | | 1803' |
| STATIONS | | 4509+50 \| 4527+63 |
| PERMANENT EROSION CONTROL | EROSION CONTROL CODE | THIS BAND NOT UTILIZED |
| | SLOPE BREAKER CODE | THIS BAND NOT UTILIZED |
| | TOPSOIL SALVAGE | THIS BAND NOT UTILIZED |
| THREATENED AND ENDANGERED SPECIES | | |
| SPECIAL CONDITIONS | TIMING CONSTRAINT | THIS BAND NOT UTILIZED |
| | CONSTRAINT 2 | THIS BAND NOT UTILIZED |
| | CONSTRAINT 3 | THIS BAND NOT UTILIZED |
| | CONSTRAINT 4 | THIS BAND NOT UTILIZED |

MATCHLINE 4500+00 — MATCHLINE 4550+00

## BILL OF MATERIALS

| ITEM NO. | QTY | UOM | REQ'N NUMBER | MATERIAL NUMBER | DESCRIPTION |
|---|---|---|---|---|---|
| 11 | 4043 | FT | | | 30" O.D. x 0.514" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE |
| 12 | 957 | FT | | | 30" O.D. x 0.617" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE |

## MISCELLANEOUS MATERIALS

| QTY | UOM | REQ'N NUMBER | MATERIAL NUMBER | DESCRIPTION |
|---|---|---|---|---|
| 6 | EA | | | SET ON WEIGHTS |
| 5 | EA | | | PIPELINE MARKERS |
| 4 | EA | | | WARNING SIGNS |
| 0 | EA | | | CP TEST STATION TYPE 1 |
| 0 | EA | | | CP TEST STATION TYPE 2 |
| 0 | EA | | | AERIAL MARKERS |
| 0 | EA | | | ANODE BED DEEP WELL |

## FITTINGS SUMMARY

| ITEM NO. | QTY | UOM | REQ'N NUMBER | MATERIAL NUMBER | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | |

## PIPE ASSEMBLIES

| QTY | UOM | DESCRIPTION |
|---|---|---|
| | | |

## CONTINUOUS CONCRETE COATING

| QTY | UOM | REQ'N NUMBER | MATERIAL NUMBER | DESCRIPTION |
|---|---|---|---|---|
| 1926 | FT | | | 6" OF CONTINUOUS CONCRETE COATING (140 PCF DENSITY CONCRETE) |

## PIPE COATING DATA

PIPE COATING: 14 MIL MINIMUM FBE AND 24 MIL MINIMUM ARO
GIRTH WELD COATING: 2 PART EPOXY
INTERNAL COATING (YES/NO): NO

## TYPICAL DRAWINGS

| DWG/FIELD BOOK NO. | TITLE |
|---|---|
| 21040-510-TYP-20001 | CATHODIC PROTECTION STD. SINGLE POINT TEST STATION, TYPE 1 |
| 21040-510-TYP-20002 | CATHODIC PROTECTION STD. FOREIGN PIPELINE CROSSING TEST STATION, TYPE 2 |
| 21040-510-TYP-20028<br>21040-510-TYP-20029 | TYPICAL OPEN CUT / BORE |
| 21040-510-TYP-20112 | CONTINUOUS CONCRETE COATING STANDARD FOR 36" / 30" PIPELINE |
| 21040-510-TYP-20113 | TYPICAL SADDLE BAG WEIGHTS |
| 21040-510-TYP-20114 | WARNING SIGN DETAIL |
| 21040-510-TYP-20115 | AERIAL MARKER INSTALLATION DETAIL |
| 21040-510-TYP-20116 | AERIAL MARKER DETAIL |
| 21040-510-TYP-20117 | TYPICAL PIPELINE MARKER ASSEMBLY |
| 21040-510-TYP-20118 | PIPELINE MARKER "WARNING" DECAL |

## GENERAL INFORMATION

1. THE MINIMUM DEPTH OF COVER FOR THE PROJECT IS 36 INCHES. ADDITIONAL DEPTH OF COVER IS REQUIRED FOR ROAD AND WATERBODY CROSSINGS, AND IS TO BE IN ACCORDANCE WITH REFERENCED PERMIT DRAWINGS, SITE SPECIFIC DRAWINGS, OR CONSTRUCTION SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
2. THE BOUNDARIES OF ALL WORK AREAS WILL BE CLEARLY MARKED AND ALL WORK SHALL REMAIN WITHIN THE DESIGNATED WORK AREA.
3. THE REQUIRED STATE ONE CALL NOTIFICATION IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR.
4. THE CONTRACTOR SHALL ACCESS THE WORK AREA USING ONLY PUBLIC ROADS AND APPROVED ACCESS ROADS.
5. ADDITIONAL WARNING SIGNS MAY BE REQUIRED AS DICTATED BY CONSTRUCTION CONTRACT.
6. MAP PROJECTION: NAD 1983 HARN STATE PLANE FLORIDA EAST FIPS 0901 FEET. VERTICAL DATUM: NAVD 88.

## SPECIAL NOTES

1. INDUCTION BEND QUANTITIES ALONG WITH THEIR DESCRIPTIONS ARE LOCATED ON DRAWING 21040-505-FBW-00001.
2. Ⓐ - SEE ARK DRAWING PACKAGE FOR ANODE BED DEEP WELL.

## LEGEND

HDD PIPE
BORE PIPE
LINE PIPE
36 IKO RT
INDUCTION BEND
TRANSITION PIPE
CONC CONC COAT
SET-ON WEIGHTS
WARNING SIGN
MATERIAL ITEM
AERIAL MARKER
CP TEST STATION
BV MOV / BV & CV
PIPELINE MARKER
PIPELINE MILEPOST
ANODE BED DEEP WELL
PIPELINE ROUTE
FENCE
POWER LINE
TELEPHONE LINE
WATERLINE
SEWER LINE
BURIED CABLE
UTILITY LINE
GENERAL SURVEY
FOREIGN PIPELINE
RAILROAD
HIGHWAY / ROAD
PRIVATE ACCESS / SHORLY ROAD
COUNTY BOUNDARY
ROW PARCEL
PLSS SECTION LINE
TRAP
WATER WELL
HDD ENTRY / EXIT
PERMANENT ROW
TEMPORARY WORKSPACE
ADDITIONAL TEMPORARY WORKSPACE
NON FORESTED WETLAND
FORESTED WETLAND
WATERBODY
PARCEL NUMBER
WETLAND / WATERBODY NAME
ROADWY
ROADWAY BUFFER (1000 FEET)
TYPICAL / DETAIL CONFIGURATION
POINT OF INTERSECTION (PI)
VERTICAL FITTING
SPREAD BREAK
ENVIRONMENTAL SURVEY AREA

## REVISIONS

| NO. | DESCRIPTION | DATE | REV BY | CHK BY | APP BY |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| 1 | IFC (UPDATE ENV., RE-ROUTES, FOOT-PRINT) | 2016-04-08 | MB | MJ | RG |
| 0 | ISSUED FOR CONSTRUCTION | 2015-12-15 | MB | MJ | RG |

| | APPROVAL | COMPANY |
|---|---|---|
| ENVIRONMENTAL | | |
| LAND | | |

0 100 200 400 600 800
1 INCH = 200 FT

## APPROVALS

| | | | |
|---|---|---|---|
| DRAWN BY: | MB | CONSTRUCTION PERMIT NO. | |
| CHECKED BY: | MJ | MAINTENANCE OPERATION REGION | |
| PROJECT MANAGER | RG | MIN. TEST PRESSURE | 1816 PSI |
| PROJECT DEF. NO. | | DESIGN PRESSURE | 1440 PSI |

UniversalPegasus INTERNATIONAL
A Subsidiary of Huntington Ingalls Industries

FLORIDA SOUTHEAST CONNECTION

FLORIDA SOUTHEAST CONNECTION PROJECT

STA: 4500+00 TO 4550+00 — DISCIPLINE#: 03

# FLORIDA SOUTHEAST CONNECTION ALIGNMENT SHEET OKEECHOBEE COUNTY, FLORIDA

SCALE: 1" = 200' — 21040-510-ALS-00095 — REV. 1